

## SITE SUMMARY AND RECOMMENDATION

The property under investigation is located at 2501 North Kings Highway, Fairmont City, Illinois. Swift Ag Chem (ILD 059995423) site coordinates are latitude  $38^{\circ}52'58"$  north, longitude  $90^{\circ}10'20"$  west. Topographic coordinates of the facility are (T.44N, R. 3E., NW  $1\4$  of Section 25).

Swift Ag Chemical site originally started approximately 1931 under the name Virginia Carolina Chemical Company. Additional owner\operators of the facility include Mobil Chemical (1967-1971), Swift and Company (1971-1983), Beatrice Inc. (1983-1986). The current owner of the facility is Vigoro Industries which stopped fertilizer production in 1991. Facility operations have involved the production of fertilizer throughout the history of this property. Both solid and liquid raw material have been used in the granulation process for fertilizer formation. Raw materials used in fertilizer production include potash, anhydrous ammonia, sulfuric acid, and phosphoric acid. Pesticides were also incorporated in the finished product although specific brand information is currently not available for this report.

The Swift Ag Chem site was initially identified by the U.S. Coast Guard after a white milky substance was identified in Rose Creek as sulfuric acid. Illinois Environment Protection Agency have identified several releases from Swift Ag to the surface water pathway since the early 1970's.

Waste deposition from site operations include waste water from the wet scrubber dumped into the former settling basin. This waste water contained a slurry of fertilizer which was deposited into the settling basin until it was filled. Once the settling basin became full, a concrete reservoir on the west portion of the property was used to store waste material. Once the reservoir was filled it was no longer used and remained full at the time this investigation was conducted.

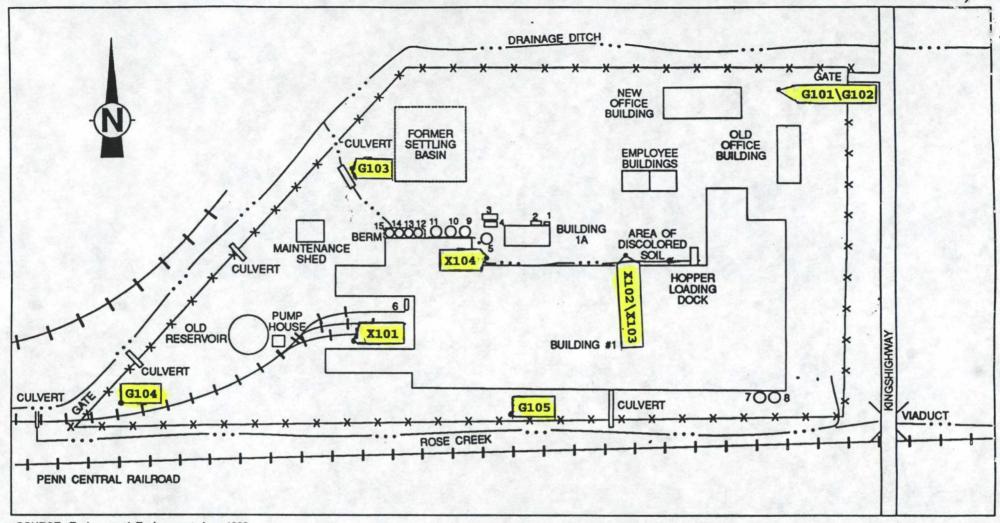
Surface soil samples collected during this investigation reveal the presence of semivolatiles, pesticides and inorganic constituents above the cleanup objectives listed in the TIERED APPROACH CLEANUP OBJECTIVES (TACO). The area of the Swift Ag Chem property was estimated to be approximately 10 acres including the main production building. Groundwater samples collected from the property revealed alpha-BHC and inorganic constituents above the groundwater cleanup objectives listed in TACO.

Surface water samples were not collected during this investigation, although sediment samples were collected during a CERCLA investigation on the property north of Swift Ag Chem. This property is listed on CERCLIS as Old American Zinc. These sediment samples revealed the presence of pesticides downstream of the Swift Ag Chem facility. When compared to the Ontario Sediment Standards, pesticides detected exceeded the lowest effect level, but remained below the severe effect level.

Pesticides found on the Swift Ag property and the surface water pathway appear to be attributable to the facility since higher concentrations were detected on the property and also these were found downstream of the property. Semivolatiles and inorganic constituents appear to be found in higher concentrations on the Old

American Zinc property. This suggests that there may be other sources contributing to semivolatile and inorganic contamination.

Based on the information collected from both IEPA records and SSI inspection, this CERCLA investigation documented the presence of hazardous materials on the 10 acre Swift Ag Chemical property. Analytical data from soil, sediment and groundwater samples document a release to the groundwater and surface water pathway. Contaminants found in the soil on the Swift Aq Chemical property appear to be attributable to the facility. Information from the CERCLA investigation on Old American Zinc, which adjoins the Swift Ag Chemical property on the north and west sides, suggests that the semivolatiles and inorganic contamination may be attributed to the zinc smelting operations. The author recommends a high priority that this site advance to a removal action of soil on the property. Also the sediment in the surface water pathway must be addressed. Although the level of contamination is known within the surface water pathway additional information may be necessary to determine whether contaminants require removal activities.





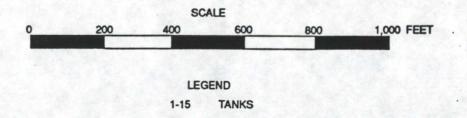


FIGURE 1 SAMPLE LOCATION MAP

SITE NAME: SWIFT AG

TABLE 2.0 SURFACE SOIL AND GROUNDWATER SAMPLE SUMMARY										
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-	64.0 J	- I	•	14.0 16.0	11.0 		=		_	
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21.0 JP	16.0 JP	7.1 JP	5.9 JP	-	-	-	-	-	_	
46.0 P	56.0 P	61.0 P	2.8 JP	-	-	- 1 1 1 1 1 1	-	-	-	
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68.1	77.7	63.1	44.8	-	-	-	7.2 B	-	-	1
9.9 B 336.0	1660.0	968.0	452.0	3.3 B	1.9 B	4.5 B	100.0	55.7	1.7 B	4
59600.0	24700.0	22500.0	33300.0	18600.0	23600.0	4890.0	1580.0	3760.0	2.0 B	
12600.0	9410.0	8740.0	2700.0	47900.0	49300.0	110000.0	41900.0	21500.0	-	
806.0	1820.0	1830.0 0.5	481.0 0.2	3770.0	4180.0	11500.0	6070.0	3130.0	1.0 B	
40.4	56.2	60.9	28.2	-	-	236.0	183.0	106.0	-	
10500.0 1.3 B	4790.0 1.4 B	4420.0 1.1 B							_	1 K
0.9 B	4.3	9.1	1.1 B	1 / July 19 - 1		-	-	-	-	100
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68.7 4590.0	66.7 9320.0	64.0 9480.0	52.2 16000.0	2.1 B 10.2 B	2.8 B 9.0 B	5.8 B 121000.0	16.2 B 31500.0	731.0	 17.8 B	
			X101   X102   X103   X103   X101   X102   X103   X103	X101	X101	X101	X101	X101	X101	X102

Bold numbers exceed the Benchmarks for the soil and groundwater pathways listed in the SUPERFUND CHEMICAL DATA MATRIX (SCDM).

SITE NAME: SWIFT AG CHEMICAL

ILD 059995423

## TABLE 2.1 SOIL AND GROUNDWATER SAMPLES EXCEEDING TIERED APPROACH CLEANUP OBJECTIVES

SAMPLING POINT	SOIL CLEANUP	X101	X102	X103	X104	GROUNDWATER	G101	G102	G103	G104	G105
PARAMETER	OBJECTIVES					CLEANUP OBJECTIVES					
SEMIVOLATILES (PPB or ug/l)											
Pentachlorophenol	10	5100.0	36.0 J								
Benzo(a)anthracene	700		2100.0	1400.0	1300.0						#4
Chrysene	1000		3400.0	2200.0	2200.0					-	
Benzo(b)fluoranthene	4000		4600.0	2200.0	2200.0		2022.03409				Challed Marchall Alba
Benzo(a)pyrene	800	-	3100.0	1600.0	1900.0		-		-	-	••
PESTICIDES (PPB or ug\l)											
alpha-BHC	0.4	1.1 JP	5.4JP	4.0JP	1200,0 C	0.03				.079 P	**
gamma-BHC (Lindane)	6			anguquipingu <del>ganga</del> ga	190		Hendaludenbalantenba	Handanbardandan bardanda	And in the Profession Section	A Charles Sept. Se	a profesional profesional pro-
Heptachlor	60	170									
Aldrin	5	3900.0 PEC	310 P	140 P	5.9JP						
Heptachlor epoxide	30				39 P						
Dieldrin	1	estanten en anten anten	330 UX	320	ementionement of the control of the						
INORGANICS		(PPM)	(PPM)	(PPM)	(PPM)	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)
Arsenic		30.9	17.9	18.7	25.3						
Barium		447.0	177.0	172.0	248.0						
Beryllium		0.7 B			enterterterterterterte						
Cadmium		19.2	35.3	33.4	37.3	5.0		-	3150.0	193.0	29.2
Chromium		68.1	77.7	63.1	44.8		**				
Iron		4				5000	18600.0	23600.0			
Lead		1010.0	887.0	793.0	1200.0						
Manganese						150	3770.0	4180.0	11500.0	6070.0	3130.0
Mercury		2.1	0.6	0.5	0.2		e-	••			
Nickel		40.4	56.2	60,9	28.2	100			236.0	183,0	106,0
Vanadium			0.4 B	0.6 B	an entre in entre interneur entre in			and the state of t	The state of the s	THE PROPERTY OF THE PROPERTY OF THE PARTY OF	posterior properties.
Zinc		4590.0	9320.0	9480.0	16000.0						
PH		5.1	6.0	6.3	6.2	Special Specia	6.0	6.0	6.0	6.0	6.0

<sup>\*</sup> Soil cleanup objectives were taken from the TIERED APPROACH CLEANUP OBJECTIVES GUIDANCE DOCUMENT.

<sup>\*</sup> Cleanup objectives for soil inorganics were not listed because each sample is pH. dependent.

\* Industrial\ Commercial cleanup number were listed.

\* Groundwater cleanup objectives were based on Class 1 standards.